IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Divisional Patent Application of

Downs et al

METHOD FOR CONTROL

Parent Filed:

March 31, 1999

OF MERCURY

Parent Serial No.: 09/282,817

1754

DIVISIONAL CASE 6013D

Parent Examiner:

Parent Art Unit:

Vanoy

(Parent Case 6013)

Honorable Commissioner of Patents and Trademarks Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT ACCOMPANYING DIVISIONAL PATENT APPLICATION

Sir:

Applicants under the provisions of 37 CFR §§1.56, 1.97 and 1.98 call the Examiner's attention to the references listed on the enclosed Form PTO-1449. Under 37 CFR §1.98(d), since these references were previously cited by or submitted to the Office during the prosecution of the Parent Application Serial No. 09/282,817, and that application is being relied upon for an earlier filing date under 35 USC §120, copies of the references listed are not enclosed.

The Examiner is respectfully requested to consider the previously submitted references, together with such other relevant materials the Examiner locates as a result of an independent search, in the examination of the present patent application.

CERTIFICATE OF MAILING BY EXPRESS MAIL

I hereby certify that this correspondence is being deposited with the United States Postal Service as "Express Mail" in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, DC 20231, June 24, 2001 by "Post Office to Addressee" service which envelope bears the "Express Mail" mailing label number: EI 325 771 374 45

Date

Respectfully submitted,

Robert C. Baraona, Reg. No. 45,426

BWX TECHNOLOGIES, INC.

Patent Department

Alliance Research Center

1562 Beeson Street

Alliance, OH 44601

(330) 829-7848

FORM PTO - 1449 (Modified)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. 6013D

SERIAL NO.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

APPLICANT
William Downs et al.

(Use several sheets if necessary)

FILING DATE June 26, 2001 GROUP

EXAMINER INITIAL	REF. NO.	DOCUMENT NUMBER	U.S. PA	NAME	CLASS	SUBCLASS	FILING IF APPRO	
	1	3,855,387	Dec 17, 1974	Brockmiller et al.	423	210		
	2	3,892,837	Jul 1, 1975	Uchiyama et al.	423	242		
	3	3,981,972	Sep 21, 1976	Hishinuma et al.	423	244		
	4	4,094,879	Jun 13, 1978	Bates et al.	260	299		
	5	4,098,697	Jul 4, 1978	DeAngelis et al.	210	202		
	6	4,190,709	Feb 26, 1980	Hodgkin	521	39		
	7	4,230,183	Oct 28, 1980	Kalfoglou	166	274		
_	8	4,273,747	Jun 16, 1981	Rasmussen	423	210		
	9	4,283,303	Aug 11, 1981	Ellis	252	188		
:	10	4,285,819	Aug 25, 1981	Yen et al.	210	679		
	11	4,377,484	Mar 22, 1983	Nasrallah	210	698		
	12	4,578,195	Mar 25, 1986	Moore et al.	210	679		
	13	4,857,183	Aug 15, 1989	Bommer	210	127		
	14	4,889,698	Dec 26, 1989	Moller et al.	423	210		
····	15	4,889,701	Dec 26, 1989	Jones et al.	423	220		
	16	4,975,264	Dec 4, 1990	Franken	423	522		
	17	5,139,982	Aug 18, 1992	Ayala et al.	502	182		
	18	5,168,065	Dec 1, 1992	Jankura et al.	436	55		
	19	5,238,665	Aug 24, 1993	Lerner	423	240		
=	20	5,246,471	Sep 21, 1993	Bhat et al.	55	223		
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	21 5,308,509		May 3, 1994	Bhat et al.	210	770		
	22	5,354,363	Oct 11, 1994	Brown, Jr. et al.	95	134		
	23	5,357,002	Oct 18, 1994	Lezzi et al.	525	332.2		
	24	5,372,940	Dec 13, 1994	Sakamoto et al.	435	195		
	25	5,380,747	Jan 10, 1995	Medford et al.	514	423		
	26	5,405,593	Apr 11, 1995	Knudson	423	244.03		
	27	5,428,154	Jun 27, 1995	Gansow et al.	540	465		
	28	5,459,276	Oct 17, 1995	Kuhn et al.	548	159		
	29	5,459,040	Oct 17, 1995	Hammock et al.	435	7.1		
	30	5,500,196	Mar 19, 1996	Rogers et al.	423	242.1		
	31	5,520,897	May 28, 1996	Rogers et al.	423	242.1		
	32 5,564,105		Oct 8, 1996 Alvino et al.		588	20		
	33	5,622,996	Apr 22, 1997	Fish	521	33		
	34	5,672,323	Sep 30, 1997	Bhat et al.	422	172		
=	35	5,750,351	May 12, 1998	Medford et al.	435	7.21		
	36	5,773,209	Jun 30, 1998	Medford et al.	435	7.24		
	37	5,773,231	Jun 30, 1998	Medford et al.	435	7.24		
	38	5,783,596	Jul 21, 1998	Medford et al.	514	423		
	39	5,785,735	Jul 28, 1998	Raskin et al.	75	711		
	40	5,792,787	Aug 11, 1998	Medford et al.	514	423		_
	41	5,795,548	Aug 18, 1998	Madden et al.	422	171		
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. =	42	5,807,884	Sep 15, 1998	Medford	l et al.	514	423			
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	44	5,811,449	Sep 22, 1998	Medford et al.		514	423			
	45	5,814,288	Sep 29, 1998	Madden et al.		423	244.01			
	46	5,814,591	Sep 29, 1998	Mills et al.		510	238			
	47	5,821,260	Oct 13, 1998	Medford et al.		514	423			
	48	5,827,352	Oct 27, 1998	Altman et al.		95	58			
	49	5,834,525	Nov 10, 1998	Fish		521	33			
	50	5,846,959	Dec 8, 1998	Medford	l et al.	514	165			
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	51	R. D. Vidic and J	. B. McLaughlin, "l	Jptake of	Elemental Mercury V ion, Vol. 46, March 1	apors by Acti	vated Cart	ons," <u>J</u>	<u>ournal</u>	
	52	presented at the	et al, "Control of RPRI Second II July 1993, 15 pa	nternatio	s from Coal-Fired Ponal Conference on I	ower Plants U Managing Ha	sing FPG zardous A	Techno ir Pollu	ology," itants,	
	53	R. Chang and D. Owens, "Developing Mercury Removal Methods for Power Plants," <u>EPRI Journal</u> July/August 1994, pages 46-49.								
	54	K. Felsvang et al., "Air Toxics Control by Spray Dryer Absorption Systems," presented at Power-Gi '92, Orlando, FL, November 1992, pages VI-1 thru VI-17.								
	55	R. Change and G. R. Offen, "Mercury emission control technologies: An EPRI synopsis, Power Engineering, November 1995, pages 51-57.								
	56	"Emission Factor Steam Electric Pl 2-12, and 2-13.	s Handbook: Guid ants," <u>EPRI,</u> TR-1	delines fo 05611s,	r Estimating Trace S November 1995, pag	ubstance Emi es: Cover, Re	ssions from	m Foss nary, 2,	i Fuel 2-11,	
	57	Advertisement by 2 pages.	The Dow Chemic	cal Compa	any, "Properties of E	OTA, DTPA, H	IEDTA, an	d NTA,	1974,	
	58	E. H. Hall, Status Controls," May 1	s Report from Bat 1994, 94TEC-1,	ttelle Mer 49 pages	norial Institute, Colu	mbus Ohio, "I	Mercury E	mission	s and	
	59				ired Power Plants a tion, 56:21-33, 1991,			et Flu	e-Gas	
	60	R. Gleiser et al., "Mercury Emission Reduction Using Activated Carbon with Spray Dryer Flue C Desulfurization," presented at 36th Annual Meeting American Power Conference, Chicago, April 25- 1994, pages 452-457.								
	61	R. Gleiser et al, " Activated Carbon	Control of Mercur Injection," MSW	y from MS Conferen	SW Combustors by S ce Proceedings, Will	Spray Dryer A liamsburg, VA	bsorption a, 1993, pg	System s. 106-	s and 122.	
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	62	RP114B.01, pre	esented at the 87	7th Ar	Wet Limestone FGD System nnual Meeting & Exhibition 4, 1994, pages 1-16.						
	63	R. Chang, et al., "Pilot Scale Evaluation of Activated Carbon for the Removal of Mercury at Coal-Fired Utility Power Plants," presented at the 2nd International Hazard Pollution Management, Washington DC, July 13-15, 1993, pages 1-17.									
	64	B. K. Gullett, et al., "Bench-Scale Sorption and Desorption of Mercury with Activated Carbon," presen at International Conference MWC, Williamsburg, VA, March 30-April 2, 1993, 8 pages.									
	65	A. Licata et al., "An Economic Alternative to Controlling Acid Gases, Mercury and Dioxin from MW 94-MP17.06, presented at the 87th Annual Meeting & Exhibition for Air & Waste Manager Association, Cincinnati, Ohio, June 19-24, 1994, pages 1-21.									
	66				ie Gas Mercury Control," 94 erence, Cincinnati, Ohio, Jui			ited at th	ne Air		
	67	C. Jones, "Conse 58-59.	ensus on air toxics	eludes	s industry to date," <u>Power,</u> O	ctober 19	94, pages	51-52, 5	5-56,		
· 	68				Fossil Fuel-Fired Power (y 21, 1994, pages 1-7.	Generatio	on," presei	nted at	DOE		
	69	Steam/its genera 35-1 thru 35-16.	ation and use, 40th	Editio	n, The Babcock & Wilcox C	ompany,	©1992, pa	iges:cov	er, ii,		
	70				Control in RGD Systems," pmposium, Washington, DC,						
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	73			, "Mercury Speciation and Emi I Technical Conference on Coal							
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	76	presented at the	C. D. Livengood et al., "Improved Mercury Control in Wet Scrubbing Through Modified Speciation," presented at the EPRI/DOE/EPA Combined Utility Air Pollutant Control Symposium, Washington, DC, Aug. 25-29, 1997, 16 pgs.								
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